Fig. 1

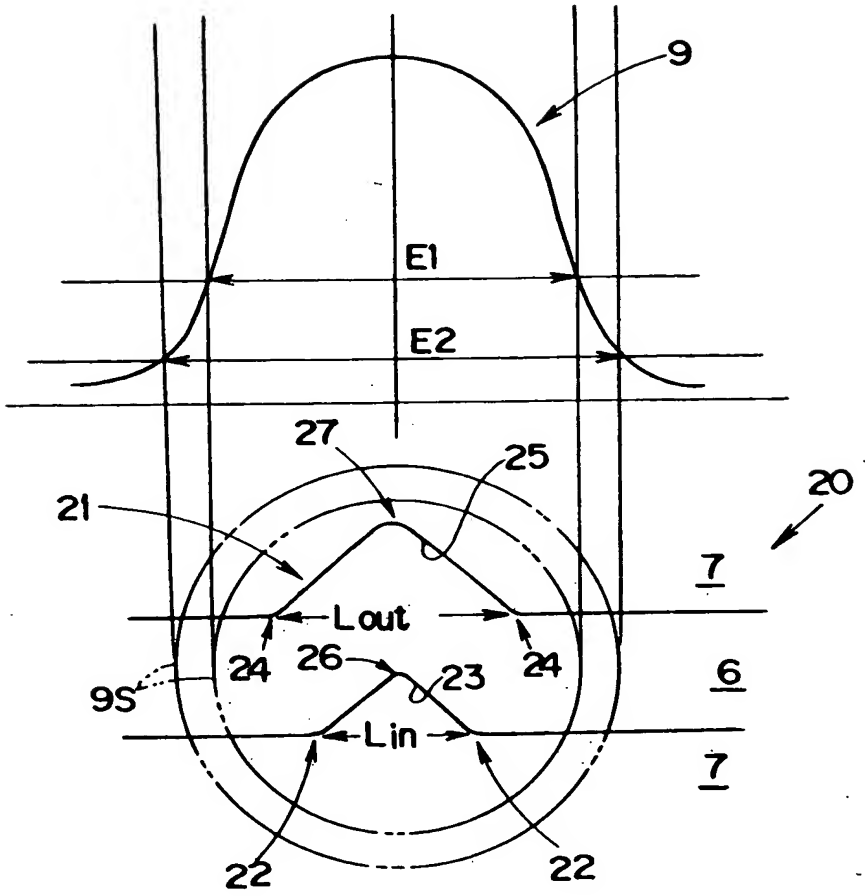

9
E1
E2
27
25
21
20
7
Lout
24
26
23
24
6
9S
Lin
7
22
22

Fig. 2

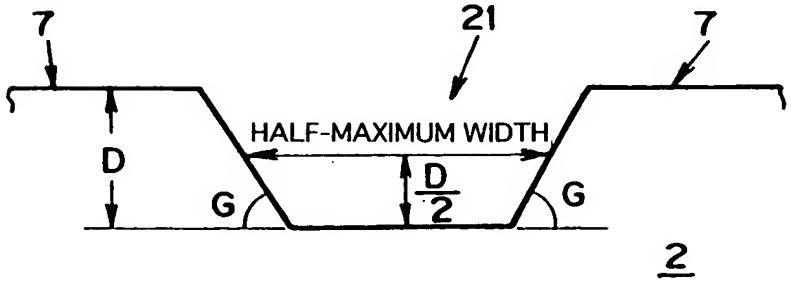

7
21
7
HALF-MAXIMUM WIDTH
D
D/2
G
G
2

Fig. 3

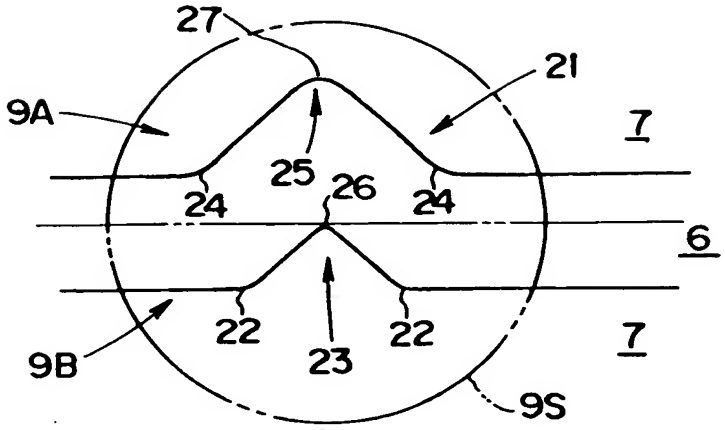


Fig. 4

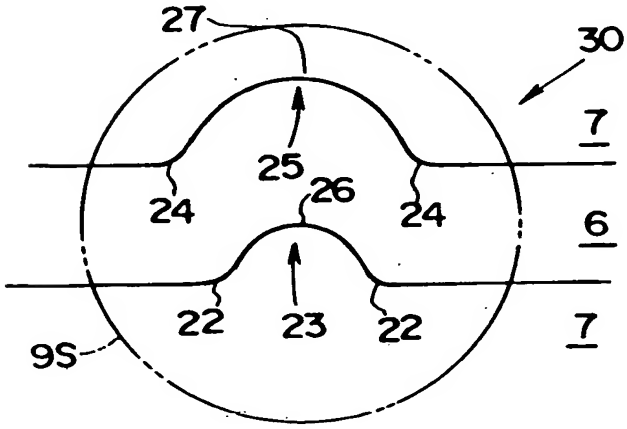


Fig. 5

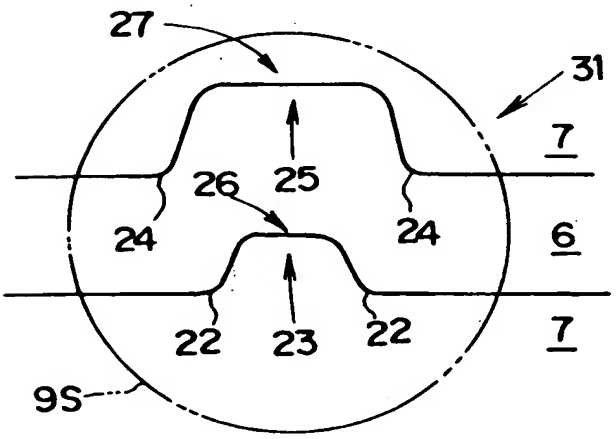
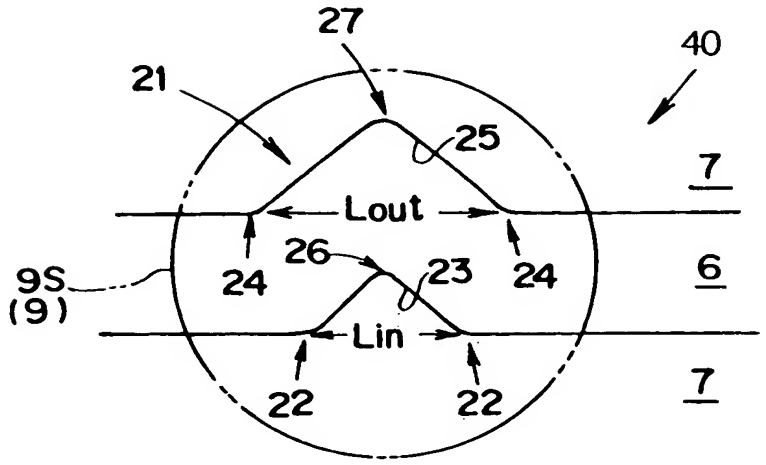


Fig. 6



$\begin{pmatrix} 3T \leq Lout \leq 6T \\ 3T \leq Lin \leq 6T \end{pmatrix}$

Fig. 7

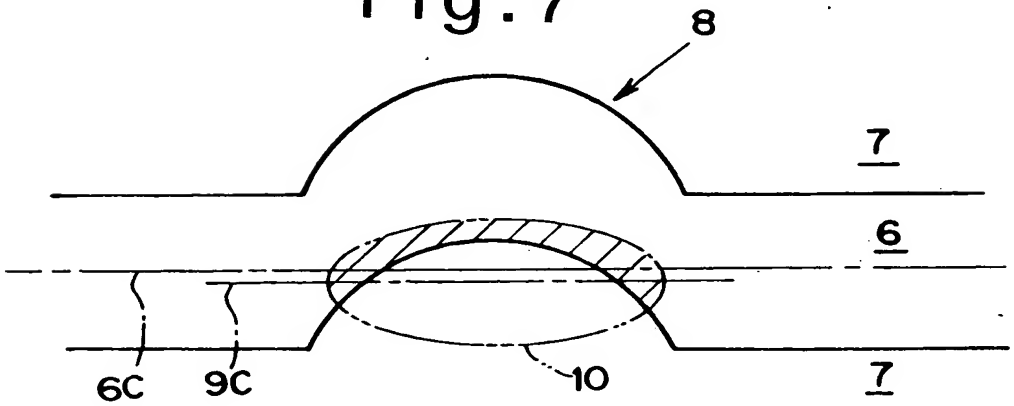


Fig. 8

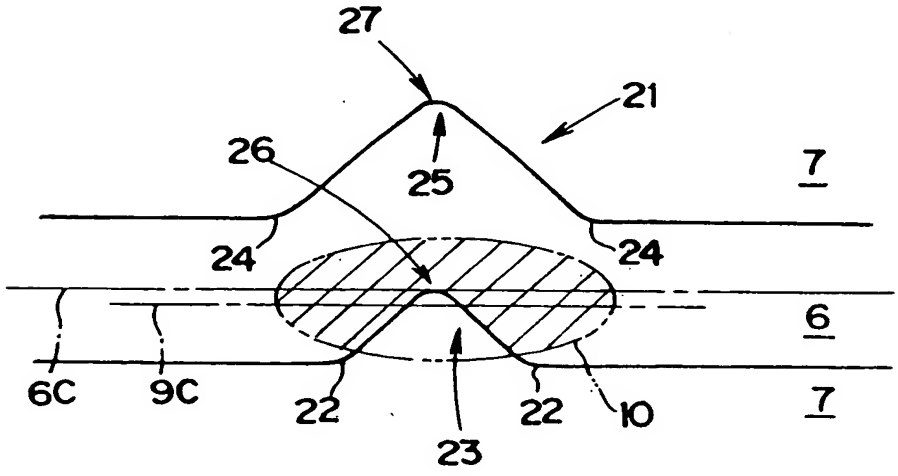
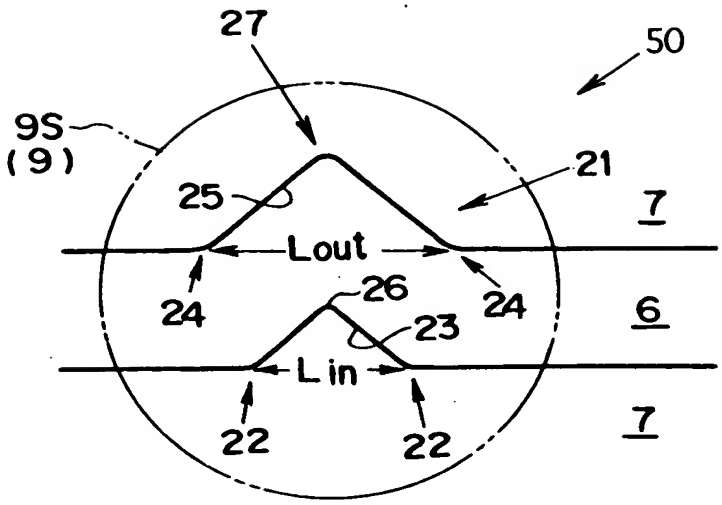


Fig.9



(0.40 μm ≦ Lout ≦ 0.80 μm
0.40 μm ≦ Lin ≦ 0.80 μm)

Fig.10

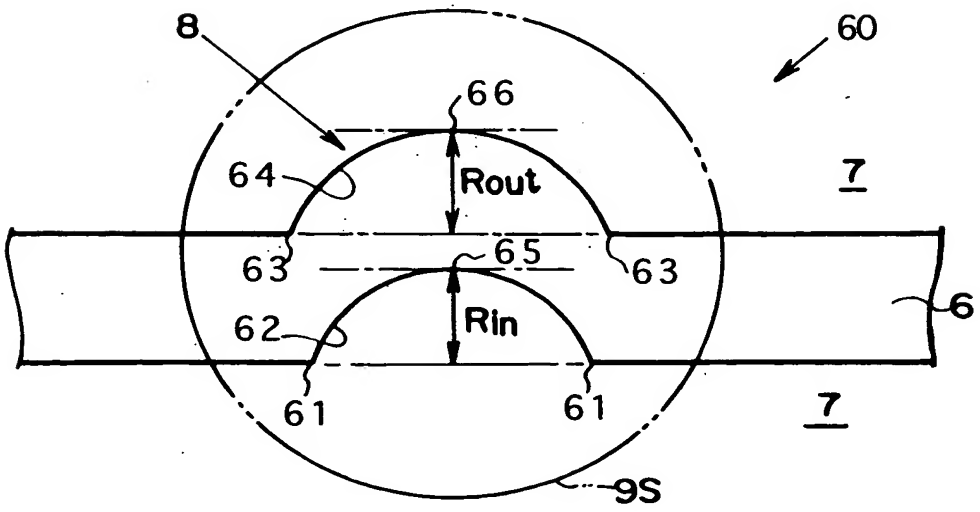


Fig.11

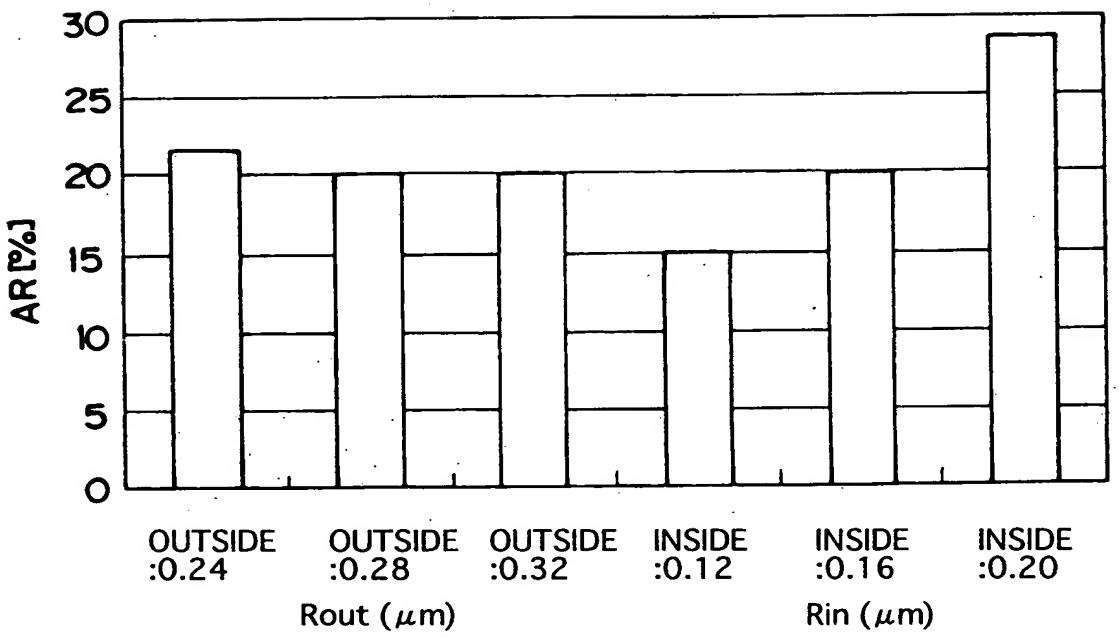

30
25
20
15
10
5
0
AR[%]
OUTSIDE :0.24
OUTSIDE :0.28
OUTSIDE :0.32
INSIDE :0.12
INSIDE :0.16
INSIDE :0.20
Rout (μm)
Rin (μm)

Fig.12

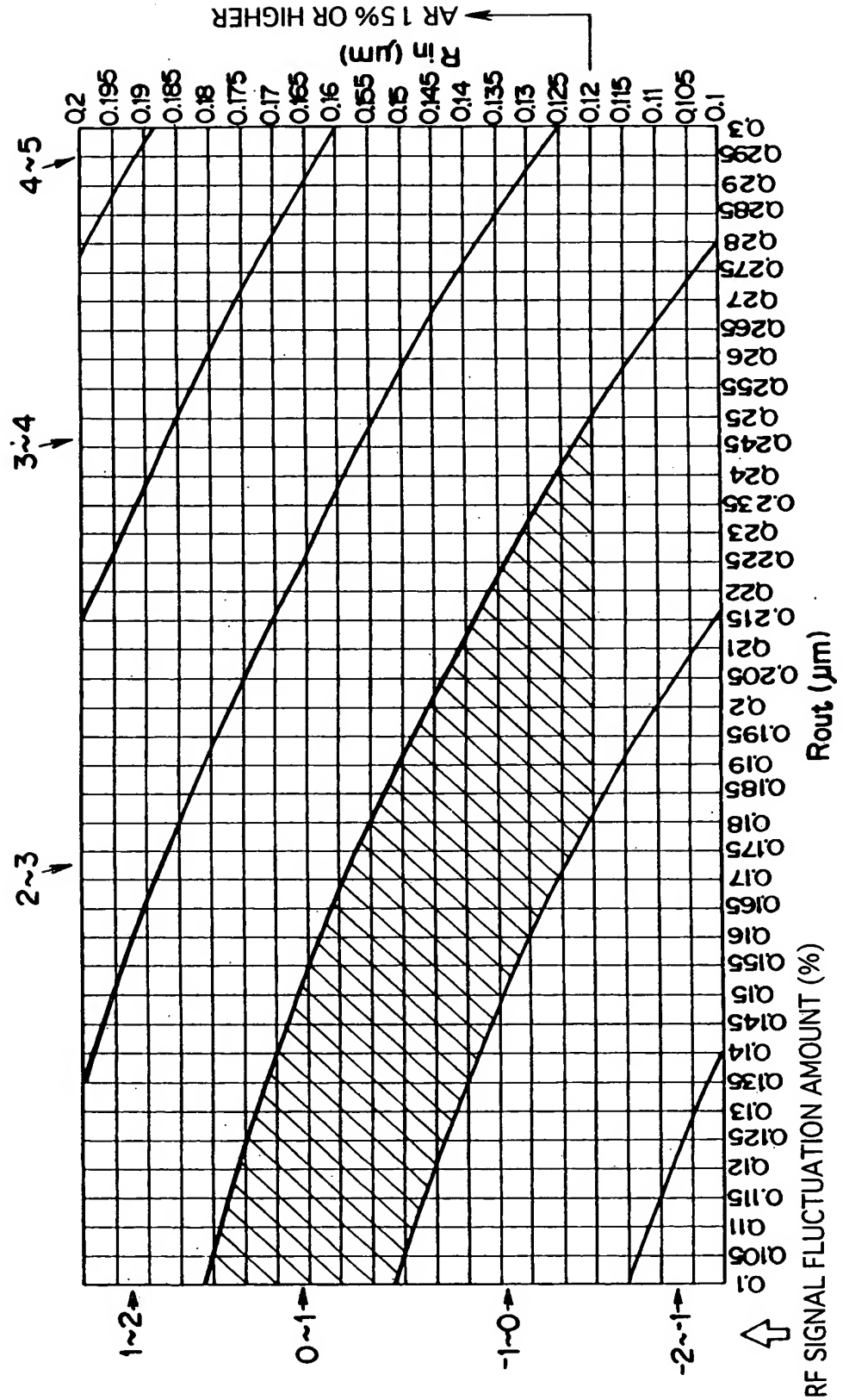
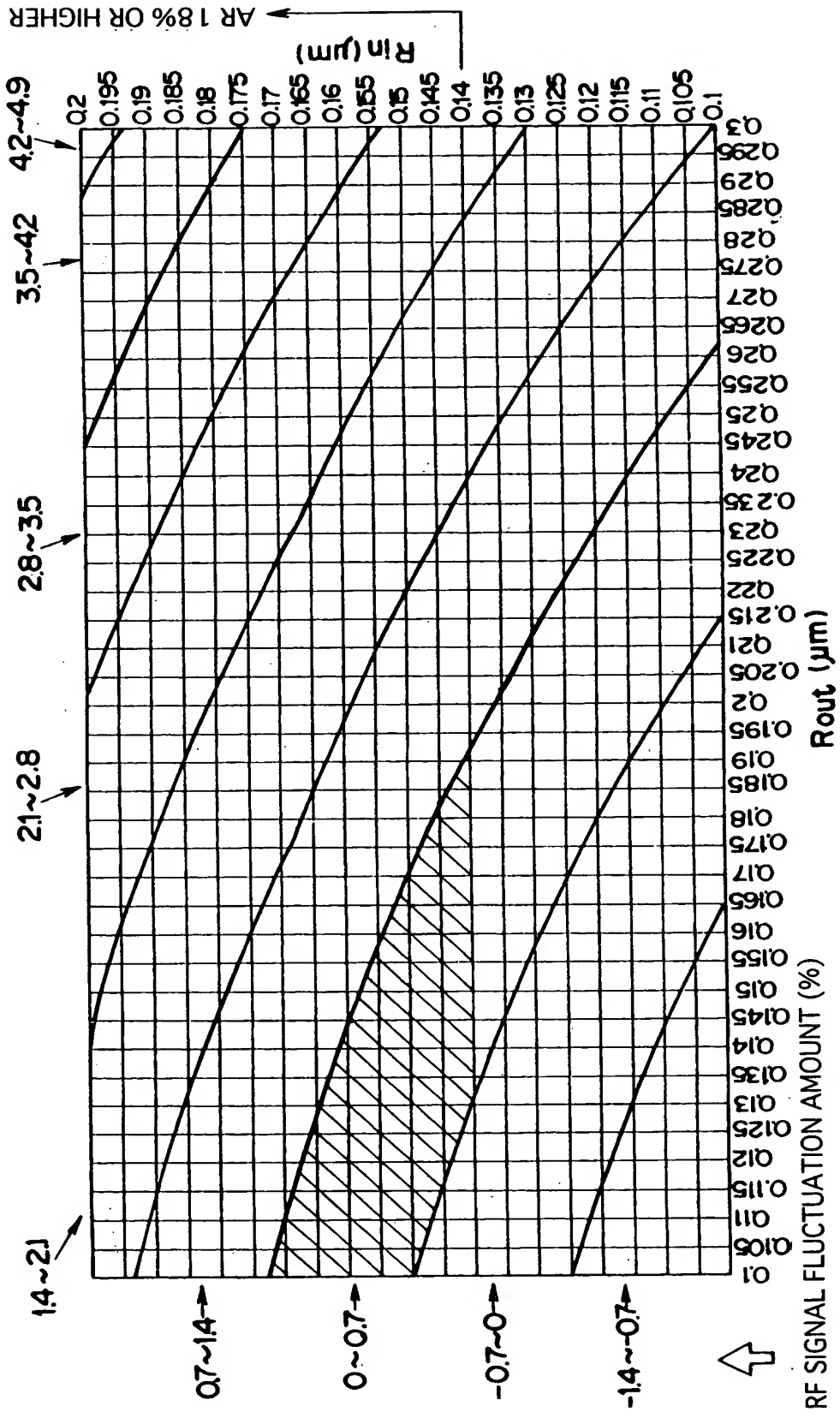

AR 15% OR HIGHER
Rin (μm)
0.2
0.195
0.19
0.185
0.18
0.175
0.17
0.165
0.16
0.155
0.15
0.145
0.14
0.135
0.13
0.125
0.12
0.115
0.11
0.105
0.1
4~5
3~4
2~3
1~2
0~1
-1~0
-2~-1
RF SIGNAL FLUCTUATION AMOUNT (%)
Rout (μm)
0.3
0.295
0.29
0.285
0.28
0.275
0.27
0.265
0.26
0.255
0.25
0.245
0.24
0.235
0.23
0.225
0.22
0.215
0.21
0.205
0.2
0.195
0.19
0.185
0.18
0.175
0.17
0.165
0.16
0.155
0.15
0.145
0.14
0.135
0.13
0.125
0.12
0.115
0.11
0.105
0.1

Fig.13


AR 18% OR HIGHER
Rin (μm)
0.2
0.195
0.19
0.185
0.18
0.175
0.17
0.165
0.16
0.155
0.15
0.145
0.14
0.135
0.13
0.125
0.12
0.115
0.11
0.105
0.1
4.2~4.9
3.5~4.2
2.8~3.5
2.1~2.8
1.4~2.1
0.3
0.295
0.29
0.285
0.28
0.275
0.27
0.265
0.26
0.255
0.25
0.245
0.24
0.235
0.23
0.225
0.22
0.215
0.21
0.205
0.2
0.195
0.19
0.185
0.18
0.175
0.17
0.165
0.16
0.155
0.15
0.145
0.14
0.135
0.13
0.125
0.12
0.115
0.11
0.105
0.1
Rout (μm)
0.7~1.4
0~0.7
-0.7~0
-1.4~-0.7
RF SIGNAL FLUCTUATION AMOUNT (%)

AD-A223 189

Fig.14

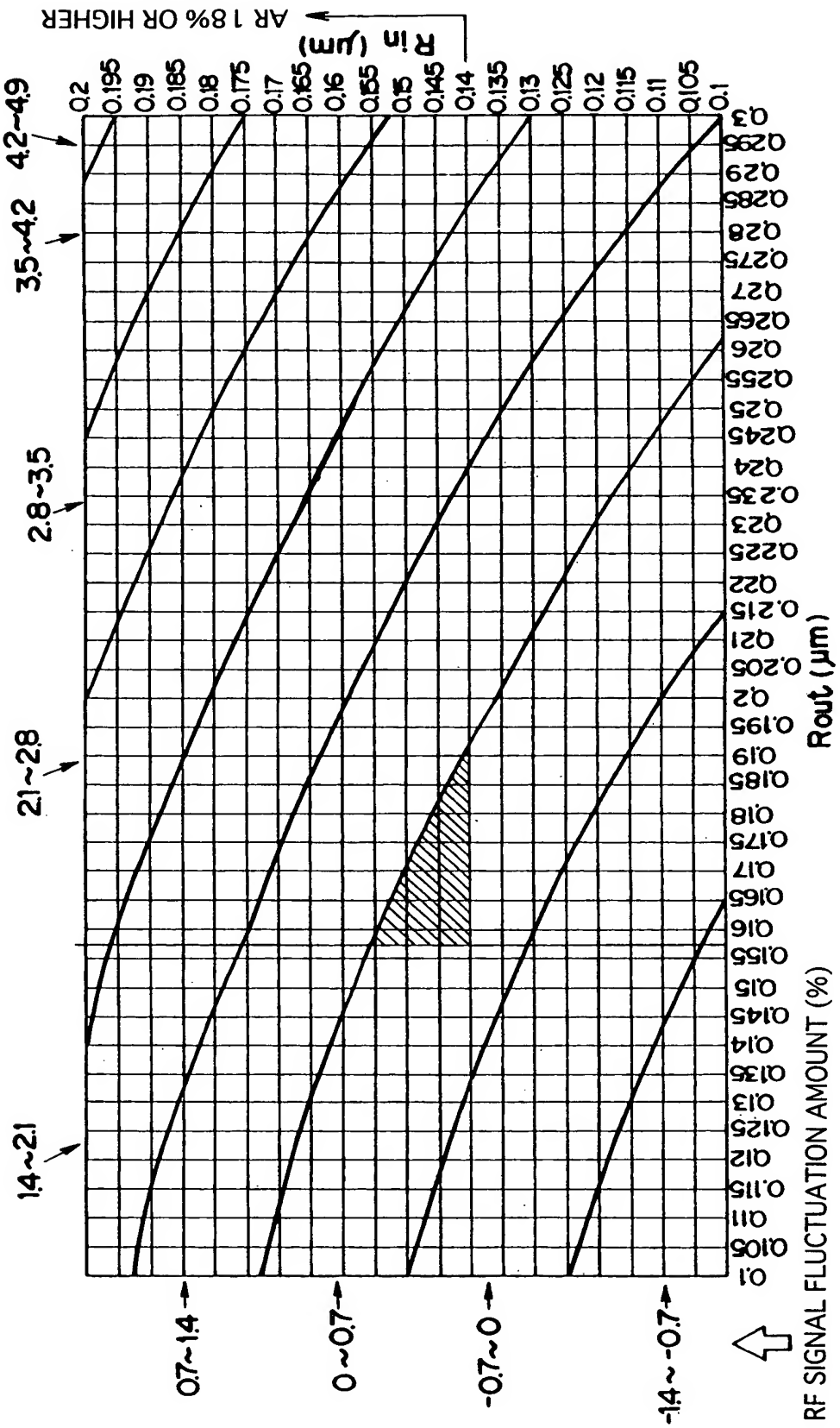
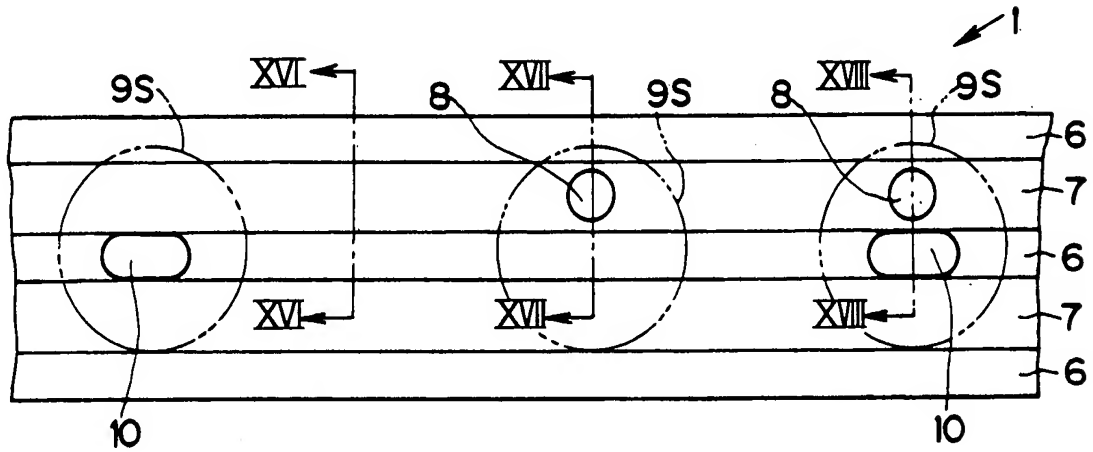


Fig.15
PRIOR ART



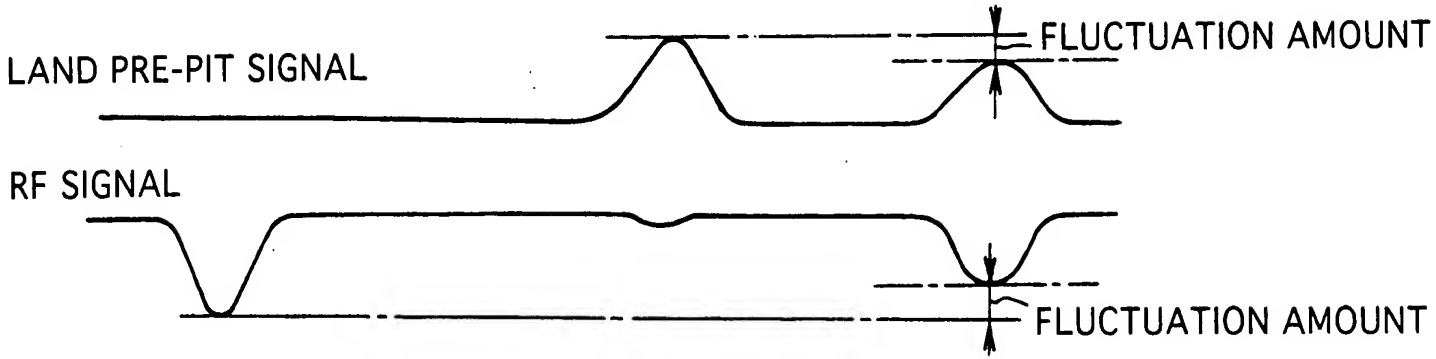


Fig.16
PRIOR ART

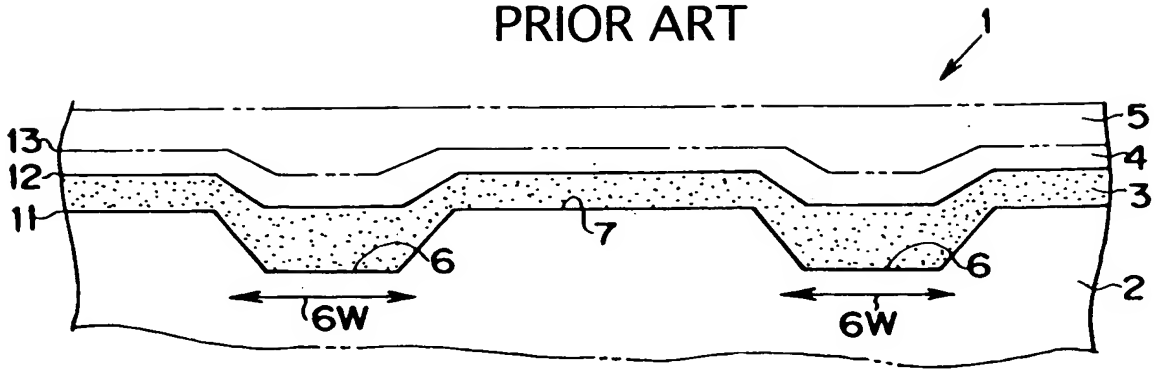


Fig.17
PRIOR ART

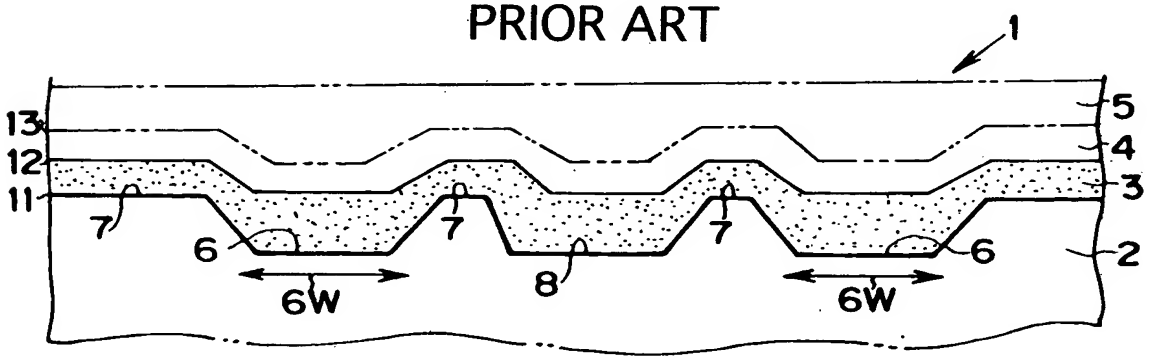


Fig.18
PRIOR ART

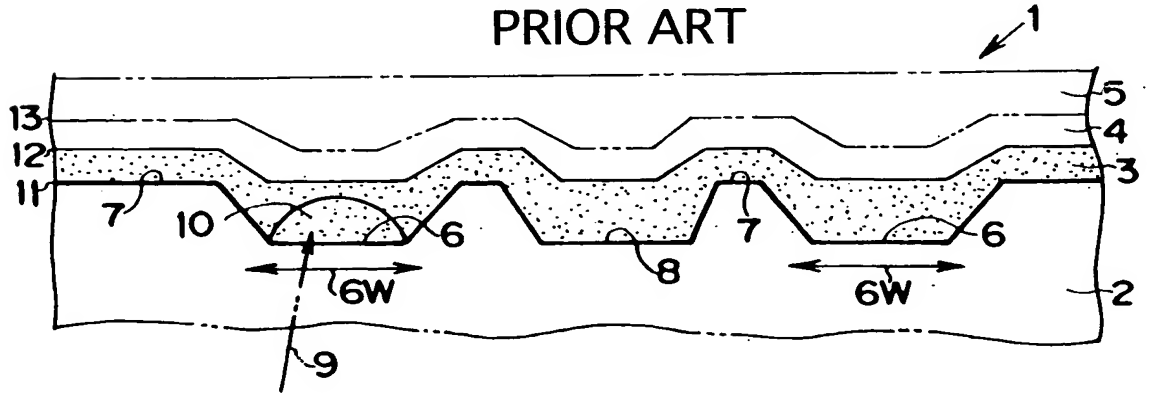


Fig.19
PRIOR ART

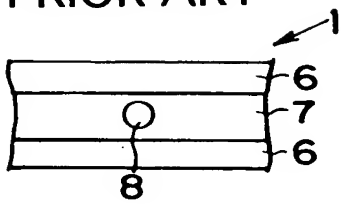


Fig.20
PRIOR ART

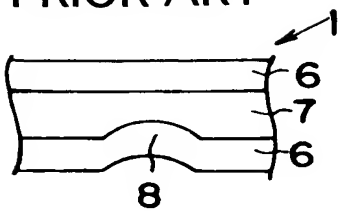


Fig.21
PRIOR ART

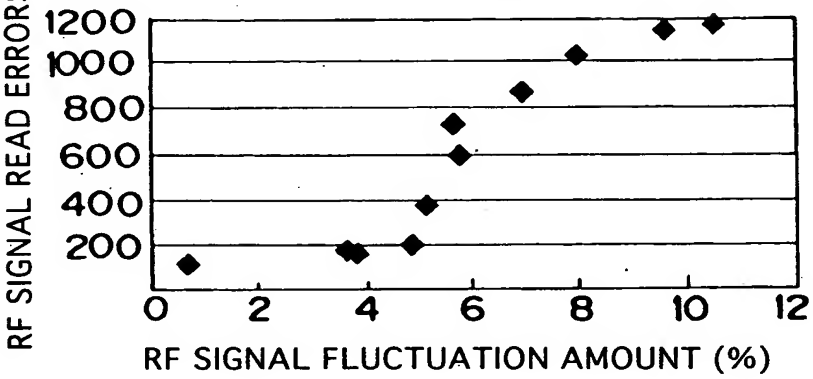


Fig.22
PRIOR ART

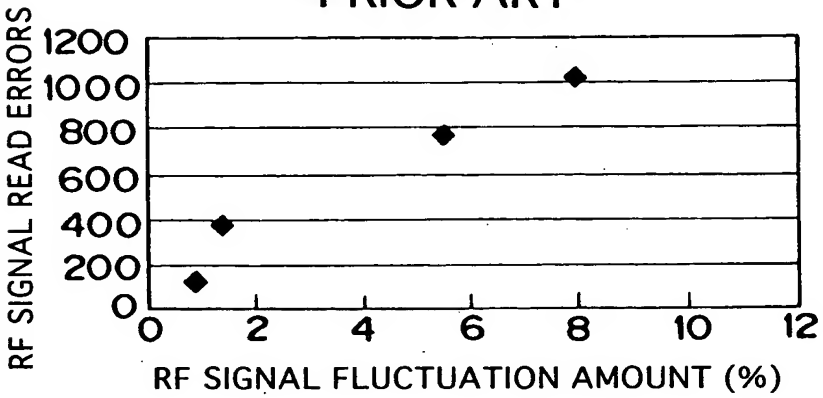


Fig.23
PRIOR ART

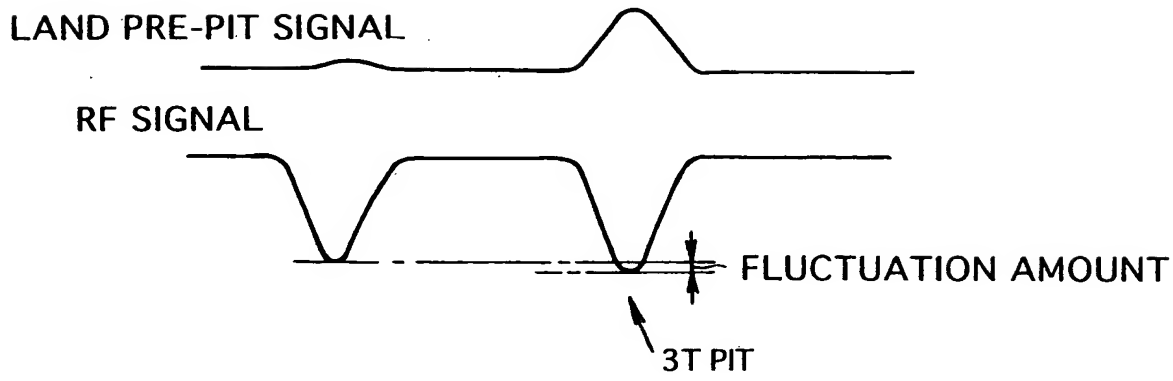
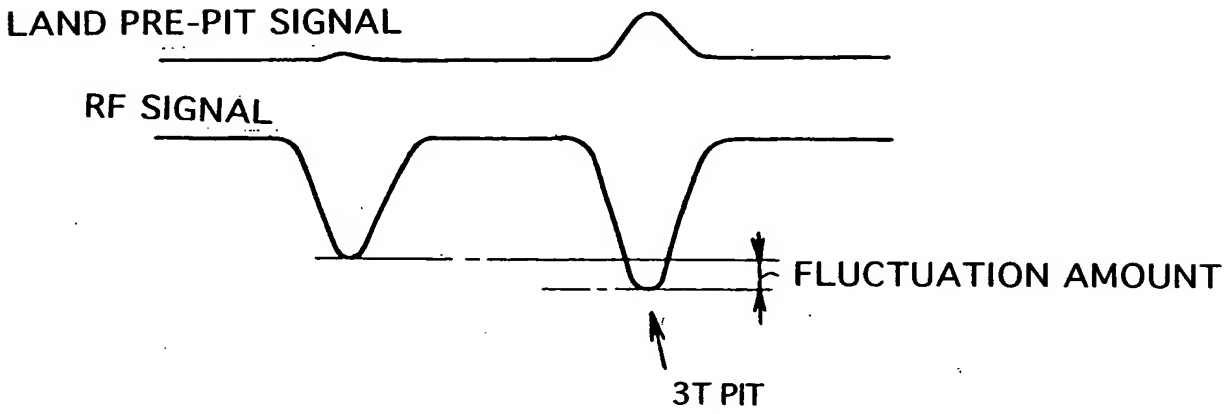



Fig.24
PRIOR ART